

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-2 (Canceled)

3. (New) A method for preparing dendrons and dendrimers with heterocyclic substructures and their derivatives comprising:

 synthetizing the dendrons and dendrimers by non-classic routes and under a microwave.

4. (New) The method of claim 3 wherein the synthesis starts from heterocyclic substructures of C2 and C4 substituted iminoethers.

5. (New) The method of claim 4 wherein the synthesis includes adding sequential and iterative polycondensation, cyclization, esterification and amidation reactions.

6. (New) The method of claim 4 wherein the synthesis comprises employing sequential and iterative polycondensation between polyalcohols and carboxylic acids or polycarboxylic acids and alcohols.

7. (New) The method of claim 4 wherein the synthesis comprises employing sequential and iterative reactions polycondensation

between aminopolyols and carboxylic acids or polycarboxylic acids and polyamines to obtain amidopolyols or aminoesters.

8. (New) The method of claim 4 wherein the synthesis comprises employing sequential and iterative reactions of amidation between polyamines and carboxylic acids or polyacids and amines.

9. (New) The method of claim 4 wherein the synthesis comprises employing sequential and iterative reactions of cyclization from amidopolyols to obtain iminoethers and their derivatives.

10. (New) The method of claim 4 wherein the synthesis comprises:
reactions of cyclic iminoethers with at least one of carboxylic acids, anhydrides, esters, bases, aldehydes, alkyl halides, amines, isocyanates, aromatic thiols, by pyrolysis or hydrolysis of the heterocycles; or

reactions with aminoalcohols or diaminoalcohols, in alternated and iterative sequences, for the formation of the basic substructures.

11. (New) The method of claim 3 wherein the microwave is between 30 and 300 Watt at 2450 MHz and at atmospheric pressure or under inert atmosphere.

12. (New) The method of claim 4 further comprising the step of isolating and purifying with a polar, a non-polar solvent, or mixture thereof.